KUZNETSOV, I.S., kand.meditsinskikh nauk; PETROV, V.I., kand.meditsinskikh nauk; FEDOTOV, P.D.

Roentgen diagnosis of actinomycosis of the thoracic and abdominal cavity. Vest. rent. i rad. 35 no. 5:37-43 S-0 (MIRA 13:12)

1. Iz rentgeno-radiologicheskogo otdela (zav. - kandidat meditsinskikh nauk V.I. Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.; Vladimirskogo (dir. - kand.med. nauk P.M. Leonenko).

(ACTINOMICOSIS)

DUBROV, Ya.C., prof.; BUACHIDZE. O.Sh., kand. med. mauk; FEDOTOV, P.D.

Bone chondroma. Vest. khir. 91 no.11:41-46 N '63. (MIRA 17:12)

1. Iz ortopedo-travmatologicheskogo otdeleniya (rukovoditel' - prof. Ya.C.Dubrov) i rentgeno-radiologicheskogo otdela (rukovoditel' - prof. V.I.Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta. Adres avtorov: Moskva, ul. Shchepkina, d. 61/2, ortopedo-travmatologicheskoye otdeleniye.

DUBROV, Ya.G., prof.; BUACHIDZE, O.Sh., kand.med.naul; FEDOTOV, P.D.

Solitary bone cysts. Ortop., travm. i protoz. 25 no.3:19-23 Mr
'64. (MIRA 18:3)

1. Iz ortopedo-travmatologicheskogo otdeleniya (rukovoditel' prof. Ya.G.Dubrov) i rentrono-radiologicheskogo otdela (rukovoditel' prof. V.I.Petrov) Moskorskogo oblastnogo k'' lcheskogo instituta
(dir. - kand.med.nauk P.M.Leonenko). Adres vatorov: Moskva I-110,
ul. Shchepkina, d.61/2, Moskovskiy oblastnoy klinicheskiy institut.

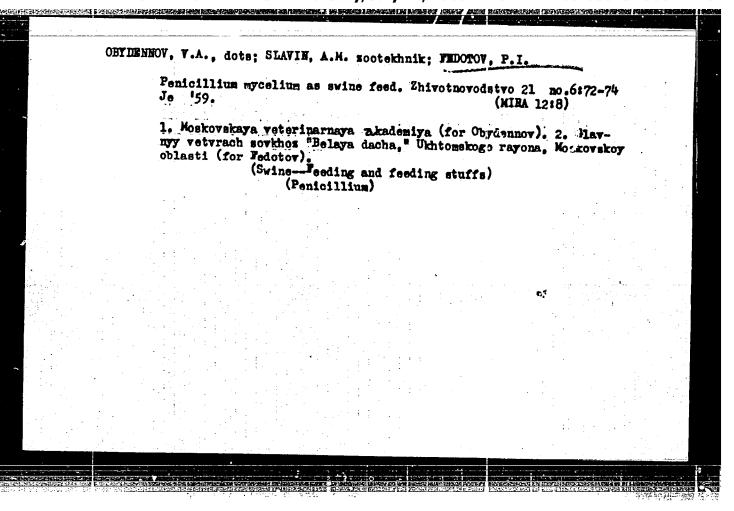
Galculating the qualitative indices for work in I-ray clinics. Vest. rent. i rad. 36 no.6:82-83 N-D '61. (NIRA 15:2) 1. Iz rentgeno-radiologicheskogo otdela (rukovoditel' - doktor meditsinskikh nauk V.I.Petrov) Moskovskogo ohlastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo (dir. - zasluzhennyy vrach RSFSR P.M. Jeonenko). (RADIOGRAPHY)

FEDOTOV, F. F.

"Viability of Dysentery Bacilli of the Flexner Group in Food Froducts" Sov. Zdravookhraneniye Kirgizii, No 2, 1955, pp 43-47

The viability of dysentery bacilli was investigated in mil:, curds, sour cream, sausage, and (fresh) meat cuts. For instance, pieces of meat were placed in a sterlie jar and covered with two milliliters of an emulsion of 1 billion microbe bodies. This infectedmaterial was steed at 18 to 25 degrees and at 4 to 6 degrees (centigrade). The flexner bacilli survived in sterile milk 30 to 40 days and in cookedmeat and sterile cheese 35 to 45 days. Some of the Flexner bacillus cultureswere tested for their biochemical properties in comparison to paracolon (bacillus). They agglutinized at one fourth to one eighth the Flexner serum titer. Dysentery culture which were typical for their biochemical properties agglutinized at one half the Flexner serum titer. Their virulence was unstable. (RZhBiol, No 4, 1954)

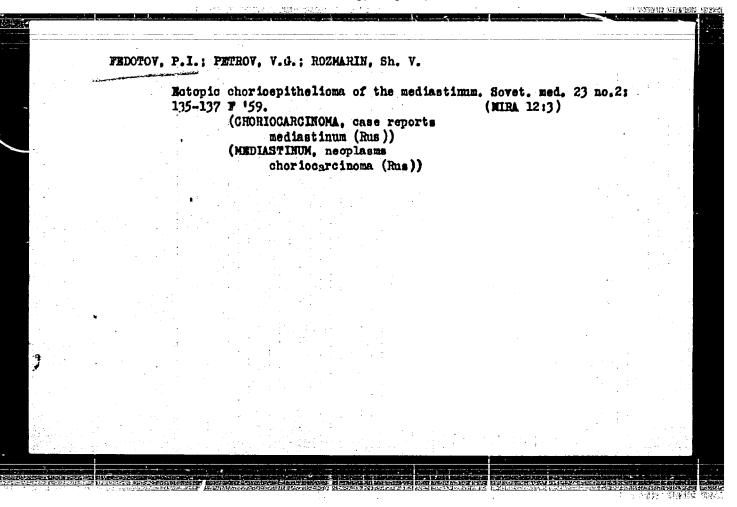
SO: Sum. No. 422, 12 May 55



PEDOTOV, P.I., gorn.insh.

Automatising the feed of boring machines toward the work face, Gor.shur. no.8:77-78 Ag '60. (MHA 13:8)

1. Kasakhskiy gorno-metallurgicheskiy institut, Alma-Ata.
(Boring machinery) (Automatic control)

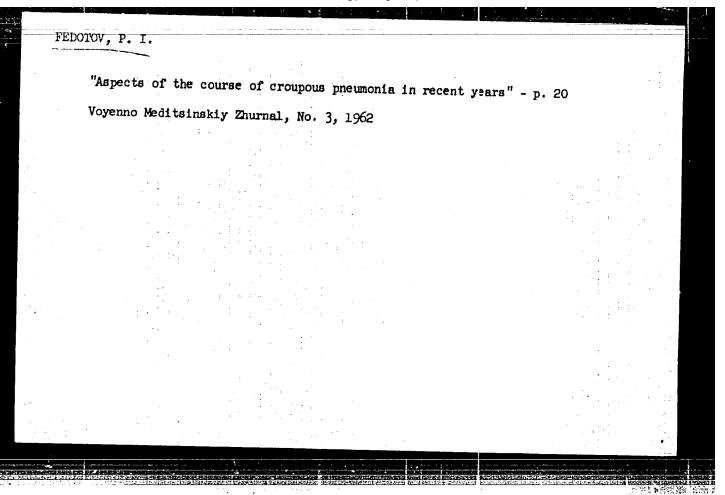


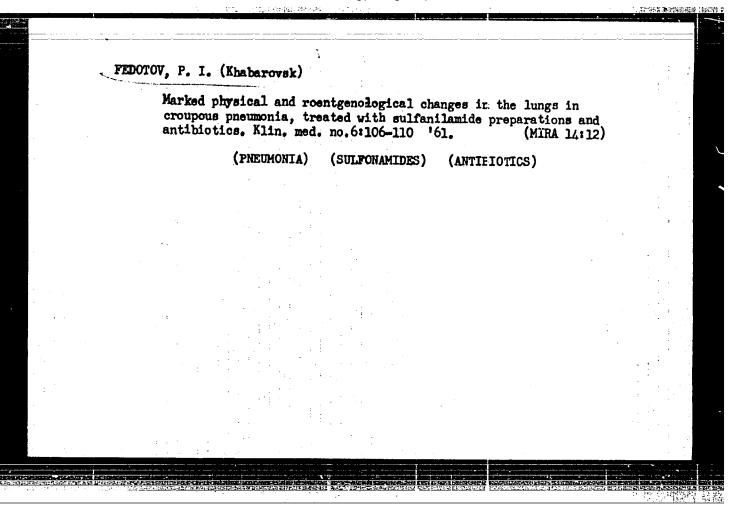
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An ISD for each large stockbreeding farm. Veterinariia 36 no.6: 71-72 Je '59. * (HIRA 12:10) 1. Glavnyy veterinarnyy vrach sovkhoza "Belaya Dacha", Ukhtomskogo rayona, Moskovskoy oblasti. (Disinfection and disinfectants—Aquipment and supplies)

Modernizing rock drills for the purpose of increasing boring speed. Trudy Alt. CMNII AN Kazakh. SSR 15:104-108 '63. Method of studying the operation of a rock drill feeder. Ibid.:109-111 (MIRA 17:3)



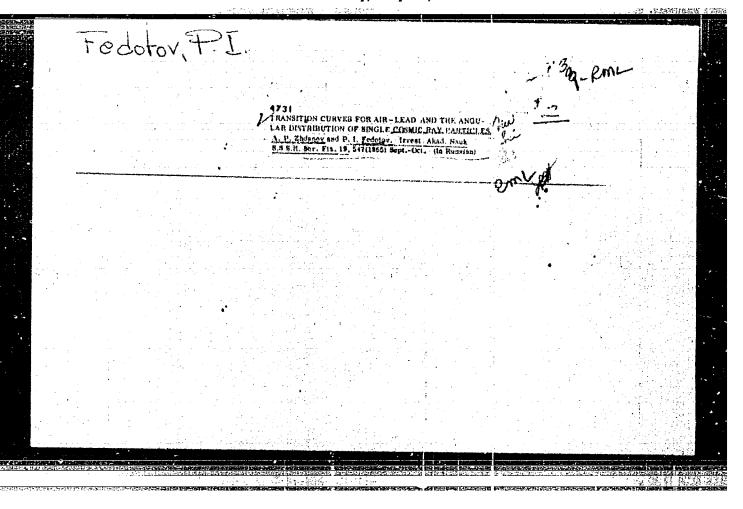


र अभागा अधिकेत्रात्रीक विकेत स्थापित स्थापित

POLIKARPOV, B.V.; FEDOTOV, P.I.; RUDNEV, A.A.

Prophylaxis of hog cholera. Veterinariia 39 mo.8:34-37 Ag '62. (MIRA 17:12)

1. Glavnyy veterinarnyy vrach Lyuberetskogo rayona, Moskovskoy oblasti (for Polikarpov). 2. Glavnyy veterinarnyy vrach sovkhoza "Belaya dacha", Lyuberetskiy rayon, Foskovskoy oblasti (for Fedotov). 3. Glavnyy veterinarnyy vrach sovkhoza imeni Mossoveta, Lyuberetskiy rayon, Moskovskoy oblasti (for Rudnev).



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

+ eporo	J. P. J. H.
	- Cosmic particles
Card 1/1	\$ Pub. 22 - 13/60
Authors	Zhdanov, A. P., and Fedotov, P. I.
Title	The transient effect and the angular distribution of singular cosmic particles
Periodical.	8 Dok. AN SSSR 100/1, 659-660, Feb 1, 1955
Abstract	1 Experiments with the so-called "transient effect" of components generating stars and heavy particles are described and analyzed. The free path and the absorption cross-section of this component in lead was
	studied. The results are presented in graphs and a table. Eight references: 2 German. 2 Italian. 3 HSSP and 1 Britain.
	Tables; graphs.
Institution	Acad. of Sos., USSR, The Y. G. Khlopin Radiation Institute
Presented by	
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ZHDANOV, A. P., KARTUYANSKIY, A. L., KUZ'MIN, V. N., RYZHKOVA, I. V., FEDOTOV, P. I., and SHUR, L. I. Moscow, USSR.

Par La Triethanolamine."

paper presented at Program of the Second International Colloquium on Corpuscualar Photography. Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3,114647.

SOV-120-58-1-8/43

AUTHORS: Zhdanov, A.P., Kolpakov, M.I., Kuz'min, V.N., Raguzin, R.M., Fedotov, P.T.

TITLE: An Instrume t for Measuring the Gap Lengths in the Tracks for Particles in Photo-Emulsions (Pribor dlya izmereniya prosvetov v trekakh chastits v fotoemul'siyakh)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 46-47 (USSR)

ABSTRACT: The instrument is in second of an eye-piece in whose field of view one sees a scale, a pair of parallel lines and the usual crosswire. The cross wire is set parallel to the track and the gap defined by the two parallel wires is moved along the track. This motion is achieved by means of the two micrometers shown in Fig.2. The motion of the two micrometers is independent of each other. There are 2 diagrams, no tables and 3 references, one of which is English

Card 1/2

SOV-120-58-1-8/43

An Instrument for Measuring the Gap Lengths in the Tracks for Particles in Photo-Emulsions.

and 2 Soviet.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: June 22, 1957.

1. Particles--Photographic analysis 2. Particles--Penetration

3. Measurement 4. Optical instruments -- Applications

Card 2/2

05461

SOV/120-59-3-32/46

AUTHORS: Zhdanov, A. P. and Fedotov, B. I.

TITLE: The Use of a Diamond Dust Suspension in the Study of

Nuclear Disintegrations on Carbon (Primeneniye

suspenzii iz almaznoy pyli dlya izucheniya yadernykh

rasshchepleniy na uglerode)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, p 133 (USSR)

ABSTRACT: Zhdanov et al. (Ref 1) have suggested that the interaction of various particles with the nuclei of different

elements may be studied by introducing these elements in the form of suspensions into nuclear emulsions. The size of such particles is usually 5-12 μ . However, this method involves a number of difficulties due to the fact that the dust particles are opaque so that some of the disintegrations which take place on the nuclei of the emulsion itself may be taken as disintegrations on the nuclei of the suspension. This effect can be reduced by using spherical particles and by soaking the

emulsion in the vicinity of the surface of the particles (Ref 2). However, disintegrations which take place in

Card 1/2 the immediate vicinity of the suspension particles are

05461 SOV/120-59-3-32/46

The Use of a Diamond Dust Suspension in the Study of Nuclear Disintegrations on Carbon

still impossible to separate from disintegrations on nuclei of the element under investigation, since the centre of a particular event cannot be seen against the background of the opaque suspended particles. The present authors have used a suspension of diamond dust in their investigations of proton-carbon interactions, Diamond particles 5-10 µ in diameter are quite transparent so that the above effect is removed. Any doubtful events which take place under one of these diamond particles can be looked at from the glass side of the plate \cdot sing a long focus objective (31 x 0.6). Several hundred disintegrations have been found which are definitely due to disintegrations in the diamond There are 2 Soviet references. particles. (Note: This is a complete translation)

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the Ac.Sc., USSR)

SUBMITTED: February 24, 1958

Card 2/2

21(7) AUTHORS:

Zhdanov, A. P., Fedotov, P. I.

SOV/56-37-2-10/56

TITLE:

Disintegration of Results of an Investigation of the/Carbon Nuclei Caused by

Protons With Energies of 660 MeV

PERIODICAL:

Zhurnal eksperimental'noy i teroreticheskoy fiziki, 1959, Vol 37, Nr 2(8), pp 392-398 (USSR)

ABSTRACT:

In the introduction the authors discuss the method of investigating the interaction of high-energy particles with light nuclei (C, N, O) by means of nuclear emulsions and the difficulties occurring hereby. The results obtained by several earlier papers are mentioned. Like in a previous paper (Ref 6) the authors used a diamond dust suspension for the purpose of investigating the (p,C) interaction. They used three-layer emulsions (layer thickness 15-20 μ , site of particles 5-7 μ). Two types of emulsion were used - the type D for recording protons with 16-20 MeV, and type S (relativistic emulsion). Irradiation with 660 MeV-protons was carried out on the phasotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Investigation results are shown by 2 tables and 4 diagrams. 540 disintegrations of carbon nuclei

Card 1/4

Results of an Investigation of the/Carbon Nuclei Caused by Protons With

were found: 190 in S-emulsions and 350 in D-emulsions. The average number of secondary tracks in C12-stars was determined as 3 in consideration of the absorption of short tracks (mainly a-particles). The correction was made by using the formula $N/N_{true} = (31/4\bar{R}^3)(\bar{R}^2 - \frac{1}{12}1^2)$, where N denotes the number of recorded tracks with a length 1, N true - the true number of tracks with the range 1 (0 \leq 1 \leq 2 \bar{R}), \bar{R} - the mean radius of the diamond particles (3 1). The distribution of disintegrations according to the number of prongs and the nature of the reaction is shown by 2 tables. Table 1 shows the number of tracks (1-8), the percentage of the total number of disintegrations in each case, and the corresponding cross section. Five-track disintegrations (34%) are the most frequent, next range the 4-, 6, 1, 2, 3, 7, 8 track ones. The maximum cross section is 7818 mb. Table 2 shows the distribution of stars according to the nature of the reaction and the respective cross sections. The absorption cross section given as amounting to $\delta_a = 227\pm12$ mb for

Card 2/4

Disintegration of SOV/56-37-2-10/56 Results of an Investigation of the Carbon Nuclei Caused by Protons With Energies of 660 MeV

650 Mev protons was obtained from a paper by Moskalev and Gavrilovskiy (Ref 9). The following kinds of disintegration are contained in table 2: $C_6^{12}(p, \frac{pn}{p2n})C_6^{11,10}$, $C_6^{12}(p, \frac{2p}{2pn})$, $C_{5}^{11,10}$, $C_{2pn}^{11,10}$, $C_{5}^{12}(p, \frac{2p}{2pn})$ centage is attained by the type 2p2a with 32.6%. The data contained in the table are discussed more in detail with respect to particles with $Z \geqslant 3$. Energy- and angular distribution of secondary particles are shown by 2 diagrams respectively (Figs 1,2). The forward-backward ratio for α -particles is given as amounting to 1.77 ± 0.2 and for protons to 1.55 ± 0.2 . The velocity of the recoil nucleus was calculated as amounting to $v = (2.710.6).10^8$ cm/sec. The authors finally thank M. G. Meshcheryakov and V. P. Dzhelepov, who made it possible for the experiments to be carried out, G. M. Subbotina for het help in evaluating the experimental material, and I. M. Kuks for discussions. There are 2 figures, 2 tables, and 15 references, 6 of which are Soviet.

Card 3/4

Disintegration of SOV/56-37-2-10/56 Results of an Investigation of the Carbon Nuclest Caused by Protons With Energies of 660 MeV

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: March 21, 1959

Card 4/4

MEDOTOV, P.I.

Application of the potential barrier criterion to the study of disintegrations in nuclear emulsions. Zhur.eksp.i teor.fiz. 37 no.4:944-949 0 159. (MIRA 13:5)

1. Radiyevyy institut Akademii muk SSSR.
(Particle track photography) (Muclear reactions)

FEDOTOV. P. I., Cand Phys-Math Sci -- "Study of the interaction of high-energy protons when the nuclei of carbon."

Len, 1961. (Acad Sci USSR. Phys-Tech Inst im A. F. Ioffe)

(KL, 8-61, 229)

- 52 -

ZHDANOV, A.P.; FEDOTOV, P.I.

Inelastic interaction of 660 Mev. protons and carbon nuclei. Zhur. eksp. i teor. fiz. 41 no.6:1870-1878 D '61. (MIRA 15:1)

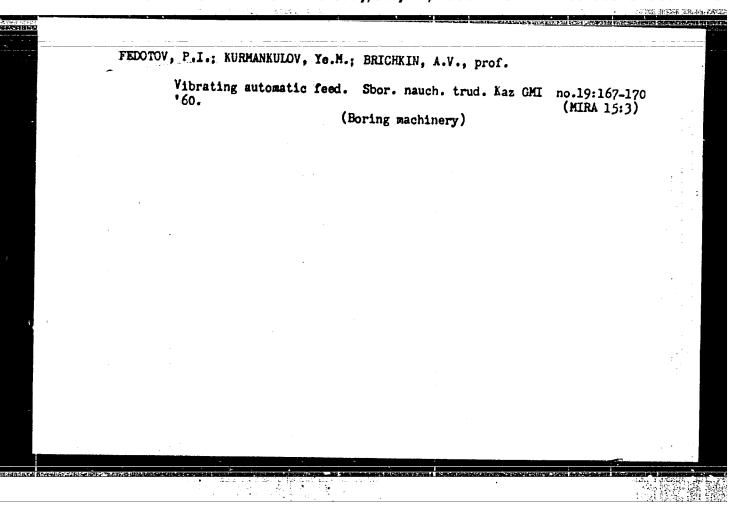
1. Radiyevyy institut AN SSSR.
(Protons--Scattering) (Carbon)

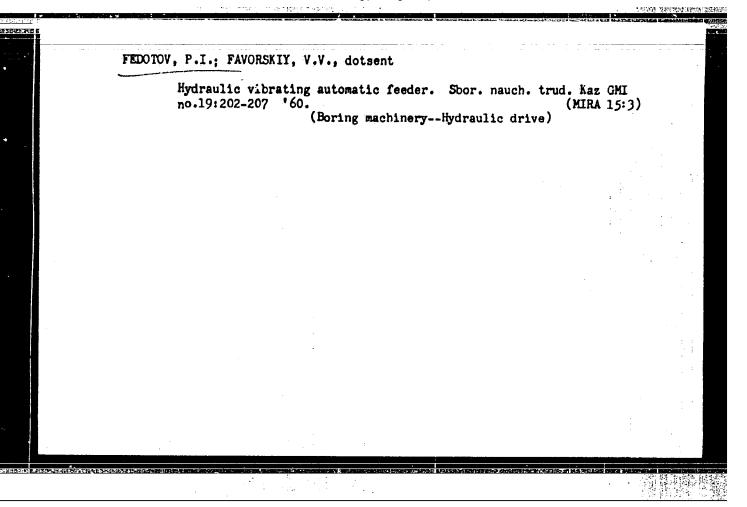
(MIRA 15:3)

FEDOTOV, P.I.; KOSHUL'KO, P.M., dotsent

Feed of a bit on the bottom of a borehole for standardizing the drilling process. Sbor. nauch. trud. Kaz GMI no.19:103-108 '60.

(Boring machinery)





31785 8/056/61/041/006/033/054 B125/B102

24.6600

AUTHORS:

Zhdanov, A. P., Fedotov, P. I.

TITLE:

Inelastic interaction of 660-Mev protons with carbon nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 6(12), 1961, 1870-1878

TEXT: This article deals with the applicability of the nuclear model of R. Serber (Phys. Rev., 72, 1114, 1947) and M. Goldberger (Phys. Rev., 72, 1469, 1948) to the calculation of an intranuclear cascade in light nuclei. The most important differences between inelastic interactions of highenergy particles with light and heavy nuclei are as follows: In cascade processes in a light nucleus, both nucleons and complex particles (presumably alpha particles) participate. This assumption will be discussed in detail in a later paper. The resonance effect can be neglected when calculating the intranuclear cascade, since the excitation cross section of levels with U>10 Mev is not greater than 1% of the total inelastic scattering cross section. The "losses in range" of a nucleon in the nucleus are studied for different collision parameters. The nuclear

Card 1/4

Inelastic interaction of ...

31785 \$/056/61/041/006/033/054 B125/B102

cascade was calculated using the distribution found by the Meshcheryakov group (L. S. Azhgirey, I. K. Vzorov, et al., ZhETF, 36, 63, 1959) and allowing for the production, absorption, and scattering of pions from nuclear nucleons. About 500 interaction events of 660-Mev protons were evaluated by the Monte-Carlo method for constant and variable densities of nuclear matter in the ${\tt C}_6^{12}$ nucleus. The absorption cross section for a nucleus of constant density was 220 millibarns, and that for a nucleus of variable density was 235 millibarns. These theoretical values correspond best to the experimental cross sections of V. I. Moskalev and B. V. Gavrilovskiy (DAN SSSR, 110, 972, 1956) for the interaction of 650-Mev protons with various nuclei. The quasi-elastic pp and np scattering cross sections, calculated by the model of radially variable nuclear density, agree with experimental cross sections. According to M. G. Meshcheryakov et al. (L. S. Azhgirey et al., ZhETF, 36, 63, 1959), the proton energy spectra obtained when bombarding various nuclei, such as carbon, exhibited a distinct maximum at high energies, which corresponds to single quasielastic collisions of protons with nuclear nucleons. The angular distribution calculated for \mathbb{C}_6^{12} is not essentially changed by allowing for

Card 2/4

31/65 8/056/61/041/006/033/054 B125/B102

Inelastic interaction of ...

radially variable nuclear density. When comparing theoretical and experimental energy and angular distributions, it should be considered that (1) interactions in calculated spectra, in which the excitation energy U of the residual nucleus after the emission of one or two cascade protons does not suffice for the emission of at least one proton or alpha particle, are to be neglected; (2) charged pions must be taken into account in calculated spectra. Under these circumstances, the total number of cascade protons and the general shape of the experimental spectrum for Q / const are in satisfactory agreement with the theoretical spectrum. This is confirmed by a comparison of experimental and theoretical yields of residual nuclei with the distributions among the excitation energies following from an analysis of spallations on carbon nuclei. V. V. Chavchanidze is thanked for comments, G. M. Subbotina for assistance, L. I. Shur and I. V. Ryzhkova for photoemulsions, as well as V. N. Kuz'min and I. M. Kuks for discussions. There are 5 figures, 2 tables, and 22 references: 8 Scviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: M. Rotenberg, L. Wilets. Phys. Rev., 110, 1126, 1958; H. F. Ehrenberg, R. Hofstadter, U. Meyer-Berkhout, S. F. Sobbotka. Phys. Rev., 113, 666, Card 3/4

Inelastic interaction of ...

1959; J. D. Dowell, W. R. Friskin, G. Martelli, B. Musgrave. Proc. Roy. Soc., 75, 24, 1960; N. Metropolis et al. Phys. Rev. 110, 204, 1958.

ASSOCIATION:

Radiyevyy institut Akademii nauk SSSR (Radium Institute of

the Academy of Sciences USSR)

SUBMITTED:

June 24, 1961

Table 1

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Card 4/4

404.15 5/056/62/043/003/016/063 B102/B104

AUTHORS:

Zhdanov, A. P., Fedotov, P. I.

TITLE:

Cascade alpha particles from carbon nuclei disintegrated by

660-Mev protons

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 3(9), 1962, 835-838

The energy and angular distributions of α -particles produced in TEXT: C_{K}^{12} disintegration induced by 660-Nev protons are compared with the spectra as calculated for intranuclear a-cascades. The number of cascade α-particles per disintegration was experimentally determined to be 0.15 ± 0.02, theoretically 0.09 was obtained. This divergence is attributed to the difference in the number of α -particles emmitted between 0 and 30°. In this angular interval more than 50 % of all cascade α-particles are emitted (calculation: almost isotropic distribution between 0 and 900). An analysis of the spectra shows that about 70 % of the cascade α -particles of the experimental spectrum are due to direct

Card 1/2

Cascade alpha particles from...

S/056/62/043/003/016/063 B102/B104

interaction between the cascade nucleons and the intranuclear α -substructure. There are 3 figures.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of

the Academy of Sciences USSR)

SUBMITTED:

April 14, 1962

Card 2/2

BDS/EWT(m) AFFTC/ASD L 19649-63

ACCESSION NR: AP3007061 S/0056/63/045/003/0455/0459

AUTHORS: Zhdanov, A. P.; Fedotov, P. I.

TITLE: Decay of residual nuclei produced in the interaction of 660 MeV protons with carbon nuclei

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 455-459

TOPIC TAGS: carbon nuclei, disintegration induced by protons, residual mucleus decay, cascade process

ABSTRACT: The experimental and calculated excitation yields and energies of residual nuclei produced after termination of the cascade process in the C12 nucleus have been obtained from an analysis of disintegrations produced on diamond particles introduced in emulsions. The analysis is based on the assumption that the possible final states have a frequency of occurrence that is proportional to their statistical weights. The calculations agree well with experi-

Card 1/82

L 19649-63
ACCESSION NR: AP3007061

ment. "The authors are grateful to G. M. Yanchilenko for great help in performing the measurements and calculations, to L. I. Shur for preparing the emulsions, and to V. N. Kuz'min and I. M. Kuks for discussions." Orig. art. has 1 figure, 3 formulas, and 2 tables.

ASSOCIATION: None

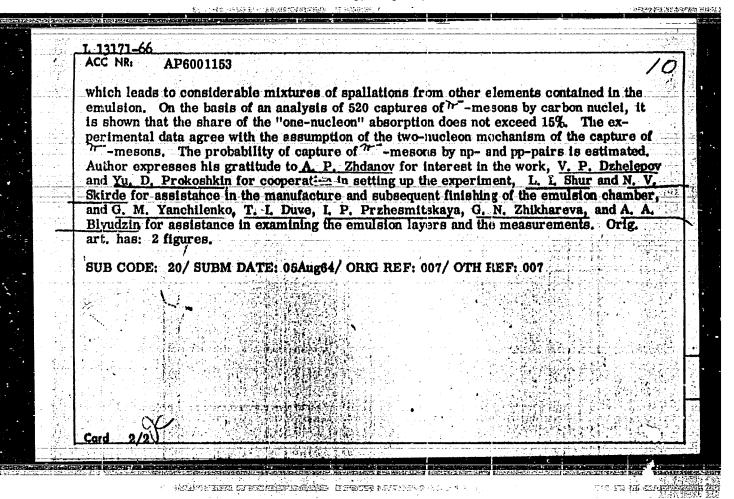
SUBMITTED: 22 Mar 63 DATE ACQ: 080ct63 ENCL: 03

SUB CODE: PH NO REF SOV: 005 OTHER: 003

Card 2/02

FEDOTOV, P.I. Absorption of stopped 17-mesons by carbon nuclei. IAd. fiz. 2 no.31466-470 S 165. (MIRA: 1819)

EWT(m)/T/EWA(m)-2ACC NR AP6001153 SOURCE CODE: UR/03/37/65/002/003/0466/0470 AUTHOR: Fedotov, P. L. ORG: None TITLE: The absorption of arrested 7-mesons by carbon nuclei SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 466-470 TOPIC TAGS: pi meson, photoemulsion, particle interaction, fast particle, charged particle, nuclear ABSTRACT: The author investigates the absorption of no-mesons by carbon nuclei. Diamond particles (about 74 in diam.) were introduced into the nuclear photoemulsions for interaction with the carbon. An emulsion chamber (10 x 10 cm²) was designed, consisting of 70 layers each 400 thick of type K nuclear photoemulsion. The dimensions of this chamber made it possible to observe the fastest charged particles generated during the capture of the π -mesons until they were completely at rest. The spallations due to the arrest of the π -meson in a diamond particle were taken for analysis. The emulsion chamber was irradiated by a beam of 80-MeV? -mesons plane parallel to the emulsion layer on the OIYal synchro-cyclotron. The mesons passing through the emulsion were slowed down to a position of rest. The maximum number of mesons at rest was located about 6 cm from the spot the mesons entered the emulsion layer. The transparency of the diamond particles made it possible to completely do away with the effect of the "indeterminate zones"



	Improving the working conditions. Put' i put. khoz. 7 no.11:29 '6 (MIRA 16:12)	3.
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CHIZHOV, D.G.; KOOTEV, G.I.; LAVRENRIKO, K.D.; SPIRIN, S.A.; HERRASOV, A.M.; IVANOV, M.I.; UPAYEV, M.YA.; GRISHIN, I.K.; KOETIN, M.P.; POPOV, V.A.; ZAGOROMIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; MESRICHERYAKOV, V.I.; YEFFENOV, S.G.; LEVIE, I.S.; ISTUCHEV, L.I.; KOKOMEV, S.V.

Nikolai Alekseevich Andreev. Energetik 4 no.9:40 S '56. (MIRA 9:10)

(Andreev, Bikelai Alekseevich, 1896-1956)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

"Types of Diphtheria Cultures in Material From the Town of Frunze and Their

FEDOTOV, P. V. MANKINA, I. P.; BAYANOVA, M. G.

Connection to the Clinical Course of the Disease," Trudy Instituta Epidemiologii i Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy SSR, Frunze, Vol 1, 1951, pp 28, 29.

FEDOTOV, P. V.: "Bacteria dissemination by toys and methods of decontaminating them." Kirgiz State Medical Inst. Fruze, 1956.
(Dissertation for the Degree of Candidate in Biological Sciences).

SO: Knishnaya Tetopis', No 23, 1956

FEDOTOV, P. V. Cand Biol Sci -- (diss) "On certain factors contributing to fitting position," the spreading of infection in children's collectives, and measures of proprietable Molotov, 1957. 16 pp 20 cm. (Molotov Med Inst.), 175 copies (KL, 24-57, 117)

FEDOTOV, P.V.; BAGYSHBEKOV, A.B. Experimental effect of acidophil milk on certain protective functions of the organism. Report No.1. Sov. zdrav. Kir. no.1:30-33 Ja.F '62. (MIRA 15:4) 1. Is Kirgisskogo instituta epidemiologii, mikrobiologii i gigiyeny (direktor - kand.med.nauk V.M.Ferelygin). (MILK, ACIDOPHILUS--PHYSIOLOGICAL EFFECT)

FEDOTOV, P.V.; GORYACHIKH, I.A.

Acidophilus milk in the prevention of intestinal infections and diseases of the respiratory tract of small children. Sov.zdrav. Kir. no.2124-28 Mr-Ap 163. (MIRA 1615)

1. Iz Kirgizskogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. - kand.med.nauk V.M. Perelygin) i kafedry detskikh bolezney (zav. - prof. B.F. Shagan) Kirgizskogo gosudarstvennogo meditsinskogo instituta (rektor - chlem-korrespondent AN Kirgizskoy SSR V.A. Isabayeva).

(MILK, ACIDOPHILUS) (INTESTINES—DISEASES)
(RESPIRATORY ORGANS—DISEASES)

FEDOTOV, P.V.; KOZHOWKULOV, T.A.; MAMYTOV, B.M.

Chemical composition and antibacterial properties of makeym, the Kirghiz national beverage. Sov. zdrav. Kir. no.4/5185-89 J1-0'63

1. Iz Kirgizskogo instituta epidemiologii, mikrotiologii i giglyeny (dir. - kand. med. nauk V.M. Perelygin) i, kafe'rry giglyeny sanitarnogo fakul'teta (zav. - dotsent B.M.Mamytov) Kirgizskogo gosudarstvennogo meditsinskogo instituta.

新多数医马克斯斯 基基基 电影音

SOURCE: Ref. zh. Biologiya. Sv. t., Abs. 22B325

AUTHURR: Fedotov, P. V.; Kozhomkulov, T. A.; Mamytov, B. M.

TITLE: Chamical composition and antibactarial properties of the Airgula rational drink "maksym"

CITED SOURCE: Scv. zdravookhr. Kirgizii, ne. h-5, 1963, 85-89

TOPIC TAGS: maksym, chemical composition, antibiotic effect, intestinal bacteria, staphylococous

TRANSFATION: The chemical composition and antibacturial properties of the Firshiz national drink "maksym" were investicated. All the 16d "maksym" samples inhibited the growth 16d "maksym" samples inhibited th

STARTSHY, D.; KOLHSNEY, S., zasluzhennyy deyatel nauki; BOTEV, V.;

KHOROKHORIN, D.; SKURIKHIN, I.; KHOKHLOV, Ye.; BUYANOV, I.,

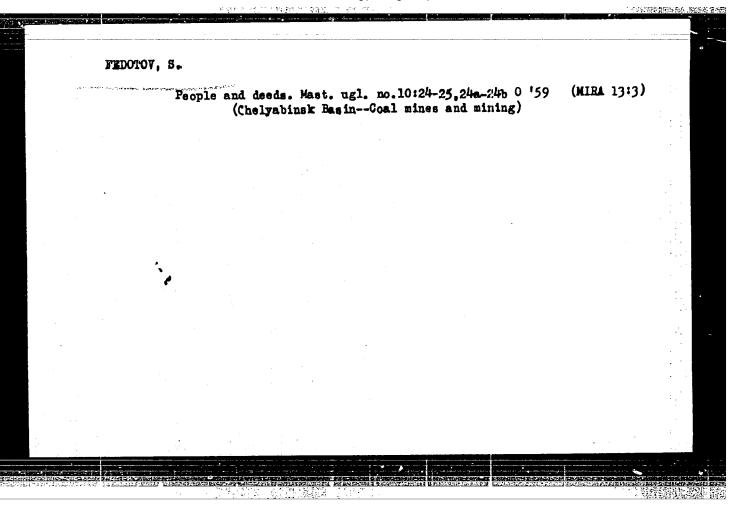
dvarhdy Geroy Sotsialisticheskogo Trufa; TROFIMOV, A.; STEPANOV, W.;

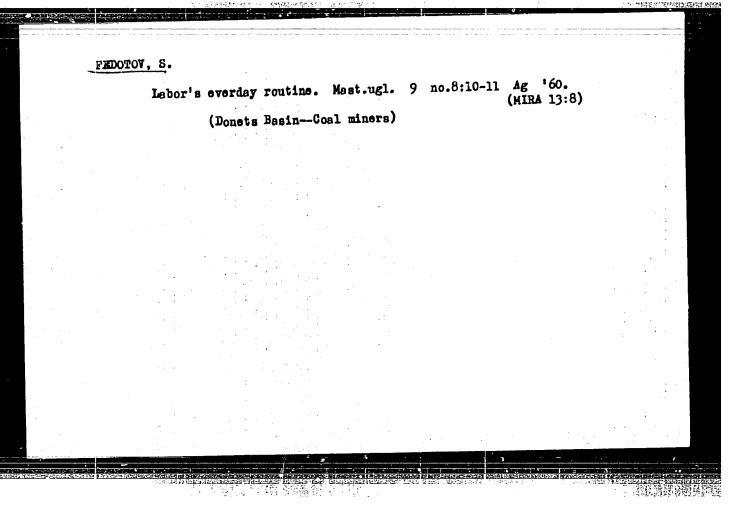
FHDOTOV, S.

The road toward new achievements. Sots. trud. no.4:14-36 Ap '58.
(MIRA 11:4)

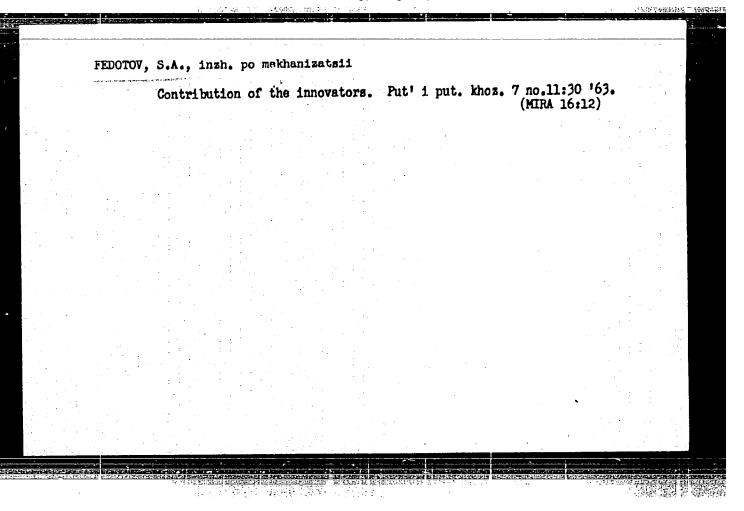
1. Starshiy ekonomist TSentral nogo planovo-ekonomicheskogo upravleniya Ministerstva sel'skogo khozyaystva SSSR (for Startsev). 2. Chlen-korrespondent Vsesoyusnoy akademii sel'skokhozyaystvennykh nauk im. V.I. Ienina (for Kolesnev). 3. Zaveduyushchiy sektorom ekonomicheskogo stimulirovaniya sel skokhozyaystvennego proizvodstva Vsescyuznoy akademii sel'skokhozyaystvonnykh nauk im. V.I. Lenina (for Boyev). 4. Zavednynshchiy sel'skokhozyaystvennym otdelom Moskovskogo komiteta Kommunisticheskoy partii Sovetskogo Soyusa (for Khorokhorin). 5. Zaveduyushchiy kufedroy ekonomiki i organisatsii sel'skokhozyaystvennogo proisvodstva Ivanovskogo sel'skokhozyaystvennogo instituta (for Skurikhin). 6. Machal'nik Spetsial nogo konstruktorskogo byuro savoda sel'khozmashin im. Ukhtomshogo (for Khokhlov). 7. Predsedatel kolkhoza "Vernyy put!, " Ivanovskogo rayona, Iva novekoy oblasti (for Trofinov). 8. Glavnyy agronom Ramenskoy medhimno-traktornoy stantsii (for Stepanov). 9. Sekretar' partiynoy organizatsii Remenskoy mashinno-traktornoy stantsii (for Fedotov). 10. Predsedatel' kolkhoza im. Vladimira Il'icha (for Buyanov).

(Machine-tractor stations) (Collective farms)





	FEDOTO	V . S.		
		Combined sec	ction. Sov.shakht. 10 no.3:14-15 Mr	161. (MIRA 14:7)
		1. Shakhta	No.5, Volynskaya oblast. (Coal mines and mining)	
•				
		:.		e e de la companya d La companya de la companya de



GOSTEV, M.A.; FEDOTOV, S.A.

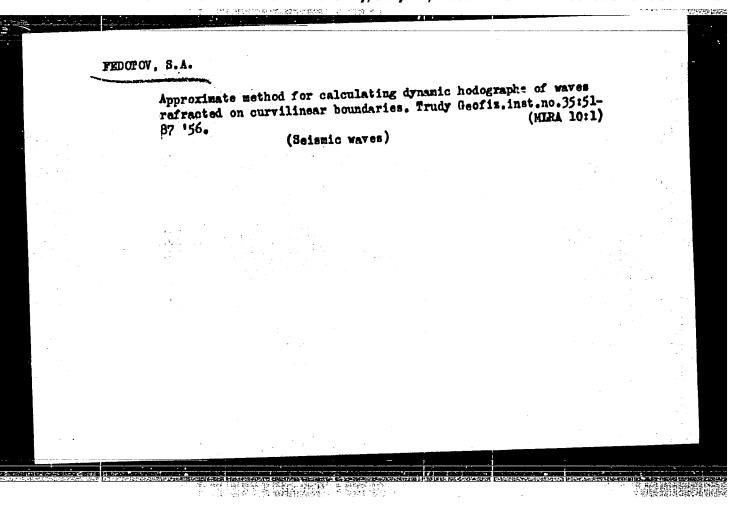
Spectral characteristics of the foreshocks and aftershocks of the catastrophic earthquake of November 6, 1958. Izv. AN SSSR. Ser. geofiz. no.5:675-687 My '64. (MIRA 17:6)

1. Institut fiziki Zemli AN SSSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273

FEDOTOV, S.A. FD-762 USSR/Geophysics - Conference : Pub 44-10/11 Card 1/1. : Kirillov, F. Author : Chronicles. Conference of young scientists of the Geophysics Institute, Title Academy of Scientists of the USSR Izv. AN SSSR, Ser. geofiz., 495-496, Sep-Oct 1.954 Periodical May 17-20, 1954, the Geophysics Institute held a conference at which Abstract: junior scientific workers participated with 18 reports; e.g. Ye. A. Lyubimova (heating of the Earth), S. L. Solov'yev (intensity of earthquakes in Turkmenia 1912-1951), S. A. Fedotov (wave hodographs), Yu. I. Vasil'yev (use of amplitude data in seismic prospecting), O. G. Shamina (elastic impulses during collapse of rocks in earthquakes), O. I. Silayeva (velocity of propagation of elastic waves in granite, marble, etc.), V. I. Tatarskiy (propagation of waves in medium with random weak inhomogeneity of refraction coefficient), L. P. Zaytsev (reflection of waves from boundary), A. S. Chaplygina (measuring the thermobaric field in the atmosphere by statistical treatment of empiric data). Institution Submitted



FEDOTCV, S.A.

49-3-15/16

AUTHOR:

Kirillov, F. A.

TITLE:

Conference of junior research workers, engineers and aspirants of the Institute of the Physics of the Earth, Ac. Sc., U.S.S.R. (Konferentsiya mladshikh nauchnykh sotrudnikov, inzhenerov i aspirantov Instituta Fiziki

Zemli AN SSSR).

PERIODICAL:

"Izvestiya Akademii Nauk, Seriya Geofizicheskaya" (Bulletin of the Ac. Sc., Geophysics Series), 1957. No. 3, pp. 411-415 (U.S.SR.)

ABSTRACT:

The conference was held on December 24-26, 1956, 21 papers were read relating to work completed in 1955 and 1956. In this report the contents of the individual papers are briefly summarised. Fedotov, S.A. read a paper on the kinematic and dynamic features of waves refracted at curvilinear boundaries.

AUTHOR: Fedotov, S. A.

TITIE: Dynamic features of reflected waves, the arrival time of which is not a minimum. (O dinamicheskikh csobennostyakh which is not a minimum. (V dinamicheskikh csobennostyakh otrazhennykh voln, vremya prikhoda kotorykh ne yavlyayetsya minimal'nym vozmozhnym vremenem).

PERIODICAL: "Izvestiya Akademii Nauk, Seriya Geofizicheskaya"
(Bulletin of the Ac.Sc., Geophysics Series), 1957, No.5,

pp.575-583 (U.S.S.R.)

ABSTRACT: The dependence of the type of oscillations on the type of the extremum of the wave's arrival time is discussed on the basis of results obtained by the author, summarizing also the work of H. Jeffreys (3) and of Anderson, Northwood and Barnes (6,7). Anderson et al. compared records of reflected waves with maximum and with minimum time paths. In this paper with maximum path reflections and maximum-minimum (or saddle point) minimum path reflections are compared. The work is based on the path reflections are compared. The work is based on the observation that both maximum and minimum path reflections change to maximum-minimum (or saddle point) path reflections, after having traversed a focussing zone or caustic. A disafter having traversed a focussing zone or caustic. A disafter having traversed a focussing zone or caustic. A disafter having traversed a focussing zone or caustic advantage of Anderson's method is the use of a coincident transmitter and receiver; when these are moved, the distance from the transmitter to the reflecting surface is varied and from the transmitter to the curvatures of the incident wave front and of the reflecting surface; the directional pattern

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-0051
Dynamic features of reflected waves, the arrival time of CIA-RDP86-00513R000412 49-5-3/18 which is not a minimum. (Cont.) of the transducers is ogive shaped. For the seismic model experiments apparatus was used which was developed by the Geophysics Institute of the USSR Ac.Sc. (Geofizicheskii Inst. AN SSSR) and described by Riznichenko, Yu.V. et al.(8-10); this is similar to Anderson's ultrasonic apparatus. Sixteen differing experiments were made. The first series of experiments was to check whether the shape of oscillations changes on passing through a focussing zone. For this purpose measurements were made along one ray of the reflected wave before the focussing zone, where the ray was that along a minimum time path and after the focussing zone, where the same ray was a maximum-minimum path. In these experiments the position of the source, the shape of the reflecting surface and the reflection point were always the same; the wave always arrived at the receiver under the same angle, which is important since the directional pattern of the piezocrystal receivers differs considerably in various directions and, therefore, the pattern of the oscillations registered depends considerably on the angle at which the wave arrives at the receiver. The reflecting surface was a cylindrically bent brass sheet. The plane in which the observations were made was perpendicular to the

Card 2/5

Dynamic features of reflected waves, the arrival time of which is not a minimum. (Cont.)

generatrix and passed through its middle, so that the problem was essentially a two-dimensional one. position of the transmitter and receiver were experimentally determined so as to avoid interference between the reflection (after it had passed the focussing zone) and other arrivals and to make the reflection sufficiently strong. The path of the rays and the position of the caustic were determined graphically. The seismograms show the reflected ray before the focussing, travelling along the minimum time path with developed "code", the same ray passing through the caustic where, due to interference, the amplitude decreases and finally behind the caustic, travelling along the maximumminimum path where the "code" becomes weaker and shorter. In accordance with the triple-valued travel-time curve, the reflection from the bottom of the reflecting surface is preceded by two reflections from the slopes of this surface, travelling along minimum time paths and arriving almost simultaneously; with increasing distance, the resolution of these reflections from the maximum-minimum reflection improves. In seismic prospecting, when waves are reflected or refracted by curved surfaces, they are focussed and dispersed. The evaluation of seismic prospecting

Card 3/5

Dynamic features of reflected waves, the arrival time of which is not a minimum. (Cont.)

results is based on the assumption that seismic energy propagates along rays. However, the type of waves passing through a focussing zone is changed and therefore in the second series of the experiments the aim was to check whether, in spite of this, the amplitude of waves can be calculated approximately on the assumption of their propagation in the form of rays. The second series of experiments was made with similar equipment to that used in the first. A triple-valued travel-time curve was plotted on the surface of water above the curved reflecting surface, where the arrivals were sufficiently resolved. The amplitude of the third arrivals was experimentally determined and compared with a theoretical curve, calculated on the assumption of ray propagation of seismic energy. The calculation method is given; it is based on the determination of the directional pattern of the transducers. It was found that both curves are very similar, which confirms that seismic energy propagates along rays both in and beyond the focussing zone. The paper contains 9 figures and 13 references, 9 of which are Slavic.

Card 4/5

Dynamic features of reflected waves, the arrival time of which is not a minimum. (Cont.)

SUBMITTED: December 22, 1956.

ASSOCIATION: U.S.S.R. Ac. Sc. Institute of Physics of the Earth. (Akademiya Nauk SSSR Institut Fiziki Zemli).

AVAILABLE: Library of Congress

Card 5/5

FEDOTOV, S.A. Cand Phys Math Sci -- (diss) " Concerning kinematic and dynamic farbisalarities of seismic waves refracted on curvolinear boundaries." Mos 1958, 10pp (Acad Sci USSR. Inst of Physics of Earth) 100 copies (KL, 21-58, 87,88)

- 4 -

PEDOTOV, S.A.

Kinematic and dynamic features of seismic waves refracted at curvilinear boundaries. Izv. AN SSSR. Ser. geofiz. no.1:174-175
Ja '59. (MIRA 12:1)

1. Uchenyy Sovet Instituta fiziki Zemli AN SSSR. (Seismic waves)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

"Seismicity of the South of the Kurile Islands."

report submitted for the Second World Conference on Earthquake Engineering, Tokyo and Kyoto, Japan, 11-18 July 1960.

FEDOTOV, S.A.; AVER'YANOVA, V.N.; BAGDASAROVA, A.H.; KUZIN, I.P.; TARAKANOV, R.Z.

Some results of a detailed study on the seismicity of scuthern Kurile Islands. Izv.AN SSSR.Ser.geofiz. no.5:633-642 My '61. (MIRA 14:4)

1. Adademiya nauk SSSR, Institut fiziki Zemli. (Kurile Islands--Seismometry)

ARKHANGEL'SKAYA, V.M.; FZDOROV, S.A. Some results of studies on the attenuation of Rayleigh surface waves. Izv. AN SSSR. Ser. geofiz. no.8:1122-1131 Ag '61. (MIRA 14:7) 1. Akademiyz nauk SSSR, Institut fiziki Zemli. (Seismic waves)

AVER'YANOVA, V.N.; FEDOTOV, S.A.; FERCHEV, M.D.

Preliminary data on the earthquake and tsunumin of Movember 6, 1958.

Biul. Sov. po seism. no.9:89-99 '61. (MIRA 14:4)

(Kurile Islands—Earthquake, 1958)

(Kurile Islands—Tidal wave, 1958)

· 8/169/62/000/009/029/120 D228/D307

AUTHOR:

Fedotov, S. A.

TITLE:

Some kinematic and dynamic peculiarities of seismic

waves refracted at curvilinear boundaries

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 9, 1962, 28, stract 9A188 (Tr. Sakhalinsk. kompleksn. n.-i. in

no. 10, 1961, 131-146)

TEXT: Head wave peculiarities, related to the boundary curvature, are considered. The case of one curved refracting boundary was investigated, the observation surface being flat and the seismic wave propagational velocities constant. The boundary's rises and hollows were considerably greater than the wavelength. The refracting wave was assumed to slide along the boundary. It is shown that seismic waves, refracted at curved boundaries, have essential kinematic and dynamic peculiarities: hodograph loops, wave-duplicates and multiple waves, sharp amplitudinal changes in consequence of the effects of the focussing and the dissipation of energy. The greater the depth

Card 1/3

Some kinematic and ...

S/169/62/000/009/029/120 D228/D307

of the boundary, its slope angles and the value of the critical angle, the larger the hodograph loops. The probability of their formation increases as the medium's velocity differentiation increases. Wave-duplicates arise as a result of a wave falling at the critical angle on several points of the boundary. Their probability of appearance, their number, and the time intervals between them increase as the boundary's depth, the hollows' curvature, and the critical angle increase. In deep concavities, when the slope angles constitute approximately 900-ic, approximately horizontally-directed seismic waves can fall on the boundary at the critical angle, giv-

seismic waves can fall on the boundary at the critical angle, giving rise to multiple refracted waves. The larger the boundary's slope angles and the lower the medium's velocity differentiation, the higher the probability of appearance of such waves. In the three-dimensional case there may be two more effects: 1) The "breaking away" of the hodograph's loop from the first arrivals' hodograph in consequence of the fact that the geometric site of the boundary's points, whose rays reach the given profile, may consist of several lines having no common points. 2) Distortions (increase

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Some kinematic and ...

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in the arrival times) of nonlongitudinal hodographs in consequence of the boundary's curvature between the detonation point and the nonlongitudinal profile. As a result of the effect of the seismic energy's focussing and dissipation the amplitude graphs of refracted waves can have a sawlike form even over gentle weakly undulating boundaries. These effects depend on the curvature of the boundary's sections and on its depth. The third arrivals, which represing zone, possess the maximum intensity within the hodograph's loop. The author notes that all seismic boundaries are variously curved, and that all the peculiarities considered can be observed over them of the boundary's depth is greater than the radius of curvature of its concave elements. Waves, reflected from curved boundaries, also have analogous kinematic and dynamic peculiarities. 23 references. Abstracter's note: Complete translation.

Card 3/3

FEDOTOV, S.A.

Determining the areas of the origin of teunami during the Mamehatka Earthquake of Movember 4, 1952 and the Iturup Earthquake of Movember 6, 1958. Izv.AN SSSR. Ser.geofiz. no.10:1333-1339 0 162.

(MIRA 16:2)

1. Institut fisiki Zemli AN SSSR.
(Kamchatka-Tidal wave, 1952) (Iturup Island-Tidal wave, 1958)

Detailed seismological research in the southern Kurile Islands. Hul. MOIP. Otd. geol. 37 no.4x133-134 Jl-ag *62. (MIRA 16:5) (Enrile Islands—Seismology)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412730

L 10186-63

EWT(1)/BDS--AFFTC/ESD-3--TF

ACCESSION NR: AP3001047

_\$/0049/53/000/005/**0670/0686**

AUTHOR:

Fedotov. S. A.; Kuzin, I. P.

TITLE: Velocity profile of the upper

Velocity profile of the upper mantle in the area of the southern Kurile

Islands

SCURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 5, 1963, 670-686

TCPIC TAGS: seismic wave velocities, upper mentle, Moho discontinuity

AESTRACT: A rapid method for constructing velocity profiles using Yu. V.
Riznichenso's theoretical hodographs was investigated using data from the near
subcrustal seismic cone of the southern Kurile Islands. To avoid errors due to
irregularities in the upper crust, arrival times were measured from near the base
of the crust 20 km below the stations. Corrections were introduced to compensate
for the intervening thickness of the crust. The accuracy of this method, with
corrections for a depth of 40-50 km, was + or = 0.2 sec; the systematic error in
determining focal depth was about 2 km. From the base of the crust down to 80 km,
V sub p = 7.7 km/sec and V sub s = 4.4 km/sec. Velocity increases with depth
below 80 km. Surface waves indicate the existence of two types of structure of

Card 1/2

L 10186-63 ACCESSION NR: AP3001047

the upper mantle: continental and oceanic. The low velocities at the Moho (probably due to magnatic activity), the absence of a wave guide, and the small decrease of velocity (0.1--0.2 km/sec) at 50--80 km indicate the possibility of a third type of structure called the "upper mantle of an island arc." The method is applicable to seismic areas with intermediate [70--300 km] "ocal depths. Orig. art. has: 10 figures, 5 tables, and 4 formulas.

ASSOCIATION: Akademiya rank SSSR. Institut fiziki Zemli (!cademy of Sciences SSSR. Institute of Physics of the Earth)

SUBMITTED: 29Jun62

DATE ACQ: 19Jun63

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SUB CODE: 00

NO REF SOV: 009

OTHER: (117

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APPROVED FOR RELEASE: Thursday, July 27, 2000

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L 10111-63

TAT(1)/BDS--AFFTC/ESD-3--TF

ACCESSION MR: AP3002025

3/0049/63/000/006/0829/0849

AUTHOR: Fedotov, S. A.

54

TITIE: Absorption of transverse seismic waves in the upper mentle and energy classification of nearby <u>earthquakes</u> of intermediate focal depth

SOURCE: AM BSSR. Izv. Ser. geofizicheskaya, no. 6, 1961, 829-849

TOPIC TAGS: seismic waves, subcrustal earthquakes, upper mantle, energy classification of earthquakes, seismology of Kurile Islamis

ABSTRACT: A method-for-determining seismic wave absorption in the upper mantle—is evaluated on the basis of earthquake data recorded in 1958-1959 in the southern Kurile Islands. The energy absorption of transverse seismic waves was found to be normal at depths of 20-40 km, to increase at depths of 60-110 km, and to reach a maximum at depths of 80-90 km. These data suggest that magma chambers exist in those formations in which transverse wave absorption is anomalously large. With the velocity cross section and data on transverse wave absorption in the earth's crust and in the upper mantle, nomograms were constructed for the energy classification of earthquakes with normal and

Card 1/2

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ACCESSION NR: AP3002025

intermediate depths of foci. The method is applicable to areas undergoing frequent subcrustal earthquakes. Orig. art. has: 13 figures and 4 formulas.

ANSOCIATION: Akademiya nauk SSSR. Institut fiziki Zemli (Academy of Sciences SNSR. Institute of Physics of the Earth)

SIEMITTED: 16Jul62 DATE ACQ: 16Jul63

ENCL: 00

SIB CODE: 00

NO REF SOV: 330

OTHER: 010

SCX /4

GORYACHEV, A.V.; YERSHOV, I.A.; KIRILLOV, F.A.; KUZIN, I.P.;
IJAMZINA, G.A.; MEDVEDEV, S.V.; FOPOV, V.V.; FEDOTOV, S.A.;
SHIEKINBERG, V.V.

Seismic microsoning of the Petropavlovsk-Kamchatskiy area.
Trudy Inst. fiz. Zem. 28 Vop. insh. seism. no.8:3-60 '63.

(MIRA 16:11)

FEDOTOV, S.A.; BAGDASAROVA, A.M.; KUZIN, I.P.; TARAKANOV, R.Z.

Seismicity and the subsurface structure of the southern part of the arc of the Kurile Islands. Dokl. AN SSSR 153 no.3: 668-671 N 163. (MIRA 17:1)

1. Institut fisiki Zemli im. 0.Yu. Shmidta AN SSSR. Predstavleno akademikom V.S. Sobolevym.

FEDOTOV, S.A.; MATVEYEVA, N.N.; TARAKANOV, R.Z.; YANOVSKAYA, T.B.

Longitudinal wave velocities in the earth's upper mantle in the region of the Japanese and Kurile Islands. Izw. AN SSSR. Ser. geofiz. no.8:1185-1191 Ag *54 (MIRA 17:8)

1. Institut fiziki Zemli AN SSSR.

1: 7007-65 But (1)/But (b) AFWL/SSD/AFETR GW ACCESSION NR: APHOLST87 B/0049/64/000/009/1360/1375 AUTHOR: Fedetov, B. A.: Kuzin, I. P.; Bobkov, W. F. TITLE: Detailed seismological investigations at Kamchatka in 1961 and 1962 SOURCE: AR SSBR. Investige. Scripe geofinicheskaya, no. 9, 1964, 1360-1375 TOPIC TAGS: seismic activity, seismological station, Pacific seismic telt, seismography, Kamchatka ABSTRACT: The results of observations made at a network of seismic stations established by a special Pacific seismic expedition to Ramchatka during the period 1961-1962 are reviewed. The instruments, sethods, and techniques of observation and data reduction were essentially the same as those used in an earlier expedition to the Kurile Islands from 1958 to 1962. It has been experimentally established that near-earthquakes with K > 10 are clearly recorded at distances of 200-300 km. On the basis of the seismic materials gathered during the first year at Kamuhatka, it was possible to compile a map of epi-Cord 1/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412730

L 7007-65 ACCESSION NR: AP4045787

centers, a map of seismic activity (based on earthquakes with foci depulse of less than 60 km), a compound vertical section, and a frequency diagram. A distinct earthquake belt was identified running parallel to the deep-water depression through the tips of the Kronotusiy and Shipunskiy peninsulas southwest to the 522 latitude line. The compound vertical section shows that this belt is an outcrop of the Pacific focal zone which crosses the deep-water depression and the elevated Kamchatka. The belt reflects the intensive contemporary processes taking place in the earth's mantle which led to the development of the island are and the deep-water depression. The map of Tracenters indicates that the deep-water depression, the structure of the Shipunskiy peninsula and its underwater extension, and the depression of the Kamchatka River and bordering contains continue cevelop intensively today. Corrections will have to be made to the map of seismic zoning of Kamchatka. On the eastern shore of Kamchatka the nine-point intensity some should be expanded to include the town of Petropavlovsk-Kamohatskiy, Onig. art. has: 8 figures and 2 wables;

ASSOCIATION: Akademiya nauk SBSR, Institut fisht temli (Academy of belences SSBR, Institute of Physics of the Barth): libiraroye otde-

Cerd 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

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20424-66 EXT(1)/EWA(h) ACC NR: AT6007194 SOURCE CODE: UII/2619/65/000/036/0003/0033 Yershov, I. A.; Medvedev, S. V. (Professor); Fedctov, S. A.; Shteynberg AUTHOR: <u>v.</u> v. ORG: Seismic microregionalization of Petrcpavlovsk (Kamchatka) SOURCE: AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seysmichenkoye mikrorayonirovaniye; voprosy inzhenernoy seysmologii (Seisnic microdistricting; problems of engineering seismology), no. 10, 3-33 TCPIC TAGS: seismicity, seismic mapping, seismic survey, microregionalization ABSTRACT: The city of Petropavlovsk (Kamchatka) lies in seismic zone IX (according to the new map of seismic zones of the USSR), a few tens on kilometers from the Pacific Ocean seismic belt. The slope of the basin off southern Kamchatka is one of the most active segments of the circum-Pacific belt. The city lies in the northeastern part of the Kurile-Kamchatka folded zone. The geomorphology and geology of the district are described briefly. Investigations over a period of three years (1961-64) by the Pacific Ocean Seismic Expedition of the Institute of Geophysics, AN SSSR, on Kamchatka have led to refinement of intensity data for Petropavlovsk (Kumchatka) and have permitted compilation of maps showing divisions of the city into seismic subdistricts. This work represents the first combined operation of instrumental, work for such detailed subdivisions of seismic districts. Data include Card 1/2 VDC: 550.34

L 20424-66 ACC NR: AT6007194 recordings of nearby earthquakes by automatic equipment, measurements of longitudinal and transverse wave velocities, and measurements of microseisms. The work has furnished better data for compiling maps of seismic districts and for comparing different methods of determining intensity increments by instrumental recording. Different instrumental methods have shown rather good agreement. It is noted that the most valuable information concerning possible seismic activity may be obtained by analyzing ground movements from nearby earthquakes by means of automatic equipment. An essentially new aspect of the maps is the delineation of zones with different spectra of earthquake effects on buildings and other structures. This is an important contribution to engineering practice in constructing earthquake-proof buildings. At many points in zones of scale IX along the Eamchatka coast and on the Kuriles, geologic conditions of bedrock and soils are similar to those in Petropavlovsk (Kamchatka). The same technique of dividing into districts has been followed, but where instrumental data have not been available, characteristics of bedrock and soils as observed at Petropavlovsk have been used as the basis for delineating districts. Orig. art. has: 13 formulas, 14 figures, and 4 tables. SUB CODE: 08/ SUBM DATE: none/ ORIG RED: 034/ OTH REF: 006/ ATD PRESS: 4222

TITIE: Seismological investigations of the Pacific Ocean Seismic Expedition, B7/ Institute of the Physics of the Earth, Academy of Sciences SSSR, in 1957-1963 SOURCE: AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seymicheskoye mikrorayonirovaniye; voprosy inshenernoy seysmologii (Seismic microdistricting; problems of enigneering seismology), no. 10, 61-65 ROPIC TAGS: seismic belt, earthquake, seismic research, vulcanism INSTRACT: All projects conducted by the Pacific Ocean Seismic Expedition (TSE) of the Departments of Engineering Seismology and Earthquake Physics, Institute of the projects of the Earth (IFZ), are described briefly. Although 80% of the earthquakes in the Kurile-Kamchatka region, cnly three low magnication seismic stations were in operation here prior to the IGY. In 1957, using edition of the IFZ began its work, which was mostly performed at sea. A seismological team was organized to conduct detailed seismological investigations in the south of the III Islands. In 1959, the team was reorganized into the Pacific Ocean Seismic station, which is still active. In 1957—1958, the main objective of investigation and seismological and the Pacific Ocean Seismic and I/3.		1-66 EWT(1)/E AT6007157 Fedotov, B. A	1/12/00	SOURCE CODE	UF:/26:19/65/000/0	36/0061/0065
SOURCE: AN SSSR. Institut fisiki Zemli. Trudy, no. 36 (203), 1965. Seysmicheskoye problems of enigneering seismology), no. 10, 61-65 NOPIC TAGS: seismic belt, earthquake, seismic research, vulcanism INSTRACT: All projects conducted by the Pacific Ocean Seismic Expedition (TSE) of the Departments of Engineering Seismology and Earthquake Physics, Institute of the province of the Earth (IFZ), are described briefly. Although 80% of the earthquakes in the Soviet Union originate in the Kurile-Kamchatka region, only three low magnication seismic stations were in operation here prior to the IGY. In 1957, using edition of the IFZ began its work, which was mostly performed at sea. A seismological team was organized to conduct detailed seismological investigations in the south						29
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ABSTRACT: All projects conducted by the Pacific Ocean Seismic Expedition (TSE) of the Departments of Engineering Seismology and Earthquake Physics, Institute of the Physics of the Earth (IFZ), are described briefly. Although 80% of the earthquakes of the Soviet Union originate in the Kurile-Kamchatka region, only three low magnication seismic stations were in operation here prior to the IGY. In 1957, using each team was organized its work, which was mostly performed at sea. A seismological team was organized to conduct detailed seismological investigations in the south the English of the ISP, the team was reorganized into the Pacific Ocean Complex Coological Coophysical Expedition which is a seismological investigation in the south the English of the ISP, the team was reorganized into the Pacific Ocean Complex Coological investigations in the south the English of the ISP of the English of the ISP of the English of the ISP	SOURCE:	AN SSER. Inch	itut fiziki Zez	di. Trudy, no.	uces 686K, in 1957-	-1963
the Departments of Engineering Seismology and Earthquake Physics, Institute of the Physics of the Earth (IFZ), are described briefly. Although 80% of the earthquakes of the Soviet Union originate in the Kurile-Kamchatka region, only three low magnication seismic stations were in operation here prior to the IGY. In 1957, using edition of the IFZ began its work, which was mostly performed at sea. A seismological team was organized to conduct detailed seismological investigations in the south in t	OPIC TA	GS: seismic be	lt, earthquake,	seismic reserva	1 . 1001 and	
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21531-66 ACC NE AT6007197 crust and mantle. The Seismology Laboratory of the Sakhalin Complex Scientific Research Institute, Siberian Branch, AN SSSR, (SakhKNII) workel with the TSE to establish a network of five sensitive seismic stations in the southern Kuriles (September 1957). Continuous earthquake recording began on 1 January 1958. Up to September 1958, all stations were located on Iturup Island, where stations were established on Shikotan and Kunashiro Islands. In 1959-1962, the principal assignments of the TSE were to study deep structure, properties of the upper mantle, and seismic conditions in the southern part of the Kurile Archipelago. Detailed measurements were made of the severe earthquake (M = 8.2) of 6 November 1958 in the ocean off Iturup Island, with intensities of 8-9 which caused tsunami. Studies of the seismicity and properties of the upper mantle showed that the southern Kurile focal zone is far more compact than formerly believed and apparently is not a channel for the escape of magma from deep depths. A somewhat slower seismic wave velocity was found to exist in the upper mantle under the southern Kuriles and adjacent shelf. The absorption of transverse seismic waves was found to increase at depths of 60-110 km, and the temperature in the upper mantle to be higher in this region than under the continents (by 100C at depths of 50-70 km). Methods were developed for engineering seismological observations with devices which were switched on automatically when earthquakes occurred and for high-speed recording on photographic paper. Detailed seismological investigations in the southern Kuriles were essentially completed by the TSE in the summer of 1962. Only studies of the spectra of southern Kuriles earthquakes are still being studied by the TSE. Observations are being continued by the SakhKNII with fewer stations. In 1960, a new assignment was to compile a new seismic regionalisation map of Kamchatka and the Momandorskiye Islands

21531-66 ACC NRI AT6007197 and the microregionalization of Petropavlovsk (Kaschatka). Detailed seismological investigations of both areas were started in the summer of 1961, with the cooperation of the Laboratory of Geophysical Stations of the Institute of Volcanology (IV), Siberian Branch, AN SSSR. The objective was to obtain accurate information on the location of Kamchatka earthquake foci, seismotectonics, properties of the upper mantle, and the relationships between volcanism and seismic conditions. The network of sensitive regional seismic stations on Kamchatka began permunent recording on 1 Mo-Vember 1961. At present, the combined network of the TSE and the IV 1 ludes 10 stations. In 1961-1963, scientists received the first accurate data on the location of parthquake foci in the kanchatka-komandorakiy region, the local relationships between seismicity and tectonics, and a new map was compiled of the seismic regionalization of Kamchatka, the Kurile Islands, and the Komandorskiy Islands. A study of the distribution patterns of earthquakes in the Kurile-Kamchatka region led to the development of a procedure and compilation of maps for long-range forecasting of maximum magnitudes of earthquakes in that region. The TIS and IV will investigate seismic conditions, search for ways to forecast earthquakes, study ground motions during strong earthquakes, improve the seismic regionalization of some sections of Kamchatka, and investigate properties of the upper mantle in the vicinity of Kamchatks, the Kurile Islands, and the Komandorskiy Islands. [20] SUB CODE: SUBM DATE: none/ ORIG REF: 018/ OTH REF: 002/ ATD PRESS: 42/9 ado.

ACC NR: AT6007198 SOURCE CODE: UR/2619/65/000/036/0066/0093 29 AUTHOR: Fedotov, S. A. BH ORG: Institute of Physics of the Earth, Academy of Sciences, SSSR (I.. stitut fiziki-Zemli Akademii nauk SSSR) TITLE: Regularities in the distribution of strong earthquakes in the region of the Kamchatka Peninsula, the Kuril Islands and Northeastern Japan SOURCE: AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seysmicheskoye mikrorayonirovaniye; voprosy inzhenernoy seysmologii (Seismic microdistricting; problems of engineering seismology), no. 10, 66-93 TOPIC TAGS: earthquake, seismology ABSTRACT: It has been shown by V. N. Gayskiy that strong cartiquakes over the entire globe are distributed according to Poisson law and are apparently random independent events. As distinct from this general rule, strong earthquakes in the Kurilo-Kamchatka region are interconnected events. These earthquakes are geographically distributed according to a regular law within the limits of the seismogenic Card 1/3

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zone and tend to be grouped in time. It is entirely possible that the strongest earthquakes within the limits of other regions are also interconnected events. This should be taken into account when using statistical probability to evaluate the recurrence interval of strong earthquakes. The focal regions of strong Kurilo-Kamchatka earthquakes in the 20th Century have tended not to overlap one another, which is apparently due to high stress relief in the focal region. Since the recurrence interval for strong Kurilo-Kamchatka and Japanese earthquakes at one point is greater than 100 years, this tendency should continue for the next few decades. These considerations are used as a basis for pointing out rotential locations of future strong shallow earthquakes $(M > 7^2/4)$ in the region of the Kamchatka Peninsula, the Kuril Islands and Northeastern Japan. The probability of these predictions is evaluated at 0.8-0.9. Periods of increased seismic activity are considered. Elementary evaluations give a probability of less than 0.05 for rendom time distribution of strong Kurilo-Kamchatka earthquakes in the 20th Century. This is natural since a catastrophic earthquake changes stresses throughout a wide region and increases the stresses at the ends of a fault causing other strong earthquakes in the area which may be widely separated from the first earthquake. The Kurilo-Kamchatka earthquakes of 1952-1963 are a good example of this. These earthquakes occurred in pairs: an earthquake at Hokkaido on 4 March 1952 was followed eight months later by

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an earthquake on the Kamchatka Peninsula on 4 November 1952, 1000 km to the northeast; another earthquake on 6 June 1958 was followed six months later by a Kamchatka earthquake 1000 km to the northeast. Active periods and series of earthquakes are known in Japan, Chile, Middle Asia, Turkey etc. The tendency for stress faulting in short periods throughout an entire area may be a common property of region. With high seismicity. The focal regions plotted for strong underwater earthquakes in the Kurilo-Kamchatka area may be considered in comparing tsunami maps as probable locations of tsunamis in the past. The probable sites of future strong Kurilo-Kamchatka earthquakes -- the small Kuril group, the middle Kuril Islands and the Kamchatka: Gulf-Kronotskiy Peninsula region -- are also probable sites of future large tsunamis. The authors consider the peculiarities for distribution of the strongest earthquakes $(M > 7^3/4)$ in the Kurilo-Kamchatla Archipelago. It is still not clear to what extent these peculiarities are true for strong earthquakes in other structures, for instance in Middle Asia where the magnitudes of the strongest earthquakes are usually smaller and the recurrence intervals are larger. Several isolated examples are cited which confirm the peculiarities noted in the paper, although systematic studies are necessary for definite conclusions. Orig. art. has: 7 figures, 4 tables.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 024/ OTH REF: 029

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APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000412730

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIH, I.B.;
GUREVICH, G.M.; GORBUNOVA, P.I.; KOHNOV, A.S.; KALANTAROVA, M.V.;
KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETICHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;
SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;
EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALECHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,
V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
CHIKINDAS, G.S.; SHCHKRBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,
I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;
VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; PIKHOMIROV, I.F.;
BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.P.; MAL'TSEV, V.I.;
VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;
KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan', Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon.
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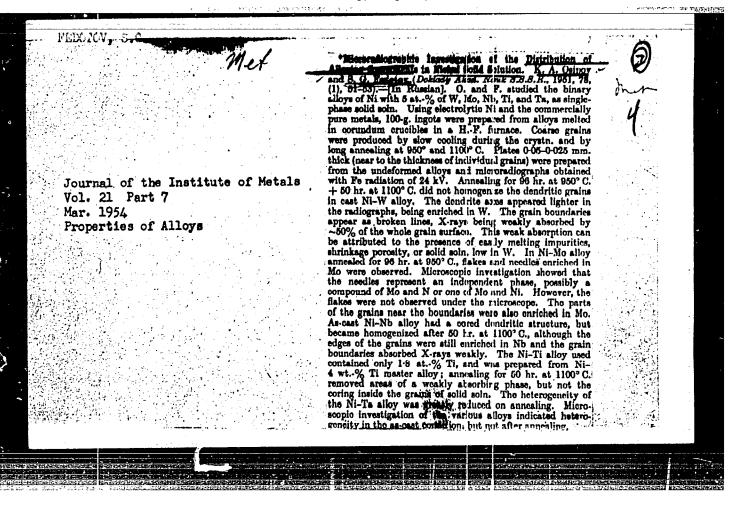
VOLKOV, V.Ys.; FEDOTOV, S.D.

fanoreatic fistulae in scute pancreatitis and their treatment.

Sov. med. 28 no.10:83-86 0 '67. (MERA 18:11)

1. Kafedra khirurgii i meotlozhnoy khirurgii (zev.- prof.

V.Y. Kravchenko) Kazenskogo instituta usovershenstvoveniya vrachey imeni Lonina.



Metalwork

Making bars without the help of framework. Rom. energ. 9 No.7, 1952.

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Softening of limited solid solutions of metals. Doklady Akad. Nauk S.S.S.R. 85, 1081-4.'52. (MLRA 5:9) (CA 47 no.22:11897 '53)

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USSR/Metallurgy - Metals, Solid Solutions

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"On the 'New' Plasticity Mechanism of Solid Metal Solutions," K. A. Osipov, S. G. Fedotov, M. G. Lozinskiy, That of Machine Studies, Acad Sci UBSR

DAN SSSR, Vol 89, No 1, pp 57-60

Authors summarize conclusions of several British investigators, whose works on "new" mechanism of plasticity in Al and Zn when they are deformed with low rates at elevated temps were published in "Journal of the Inst of Metals" for 1949 - 1952.

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B-76-101

<u>2:3000, 5. 3.</u>

They discuss exptl data which corroborate possibility of similar mechanism of plasticity in solid soln of Cu-Sn system, considering 2 possible interpretations of the nature of this mechanism and disputing assumption that this mechanism is "new," not actually representing phenomenon of recrystallization. Four micrographs accompany article.

Presented by Acad N. T. Gudtsov 12 Dec 52.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273

USSR/Metallargy - Vacuum Method in Metallography, Grain Growth

"On the Shift of Grain Doundarios in Meated Metal," I. A. Coing, Corr Mon and Sci USSR; M.G. DAM SSSR, Vol 91, No 1, pp 75, 76

Presents results of investigations into kirctics of grain growth in steel and So-breaze during isothermal holding in vacuum chamber, showing successive positions of growing grain linear rate of boundary movement.

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